

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF112415\
 Data File : BF083259.D
 Acq On : 25 Nov 2015 2:05
 Operator : UM/IZ
 Sample : G4412-07
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TEC-C1

Manual Integrations
 APPROVED

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 11/25/2015 12:54:42 PM

Quant Time: Nov 25 11:18:53 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sun Nov 22 09:22:46 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.60	152	187621	20.00	ng	-0.06
21) Naphthalene-d8	7.90	136	754534	20.00	ng	-0.06
38) Acenaphthene-d10	9.64	164	379418	20.00	ng	-0.06
63) Phenanthrene-d10	11.12	188	662700	20.00	ng	-0.06
75) Chrysene-d12	13.75	240	449335	20.00	ng	-0.06
86) Perylene-d12	15.11	264	436142	20.00	ng	-0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.21	112	1501605	121.00	ng	-0.07
7) Phenol-d6	6.28	99	2146789	133.70	ng	-0.06
23) Nitrobenzene-d5	7.18	82	1274800	77.20	ng	-0.06
41) 2,4,6-Tribromophenol	10.43	330	402258	103.63	ng	-0.06
44) 2-Fluorobiphenyl	8.98	172	1973291	72.52	ng	-0.05
78) Terphenyl-d14	12.71	244	1499770	78.60	ng	-0.06
Target Compounds						Qvalue
48) Acenaphthylene	9.51	152	116027	2.95	ng	99
49) Dimethylphthalate	9.38	163	577206	19.76	ng	98
70) Phenanthrene	11.14	178	662398	17.35	ng	99
71) Anthracene	11.20	178	115340	2.96	ng	97
73) Di-n-butylphthalate	11.70	149	245642	5.81	ng	98
74) Fluoranthene	12.33	202	1212670	31.03	ng	99
77) Pyrene	12.56	202	1094087	35.64	ng	96
80) Benzo(a)anthracene	13.74	228	538102	19.36	ng	94
82) Chrysene	13.77	228	396658	15.39	ng	98
85) Indeno(1,2,3-cd)pyrene	16.34	276	308692	13.17	ng	98
87) Benzo(b)fluoranthene	14.74	252	540848m	18.15	ng	
88) Benzo(k)fluoranthene	14.75	252	173087m	7.80	ng	
89) Benzo(a)pyrene	15.05	252	385000	15.65	ng	# 94
90) Dibenzo(a,h)anthracene	16.35	278	65362m	2.92	ng	
91) Benzo(g,h,i)perylene	16.71	276	303618	13.92	ng	# 92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

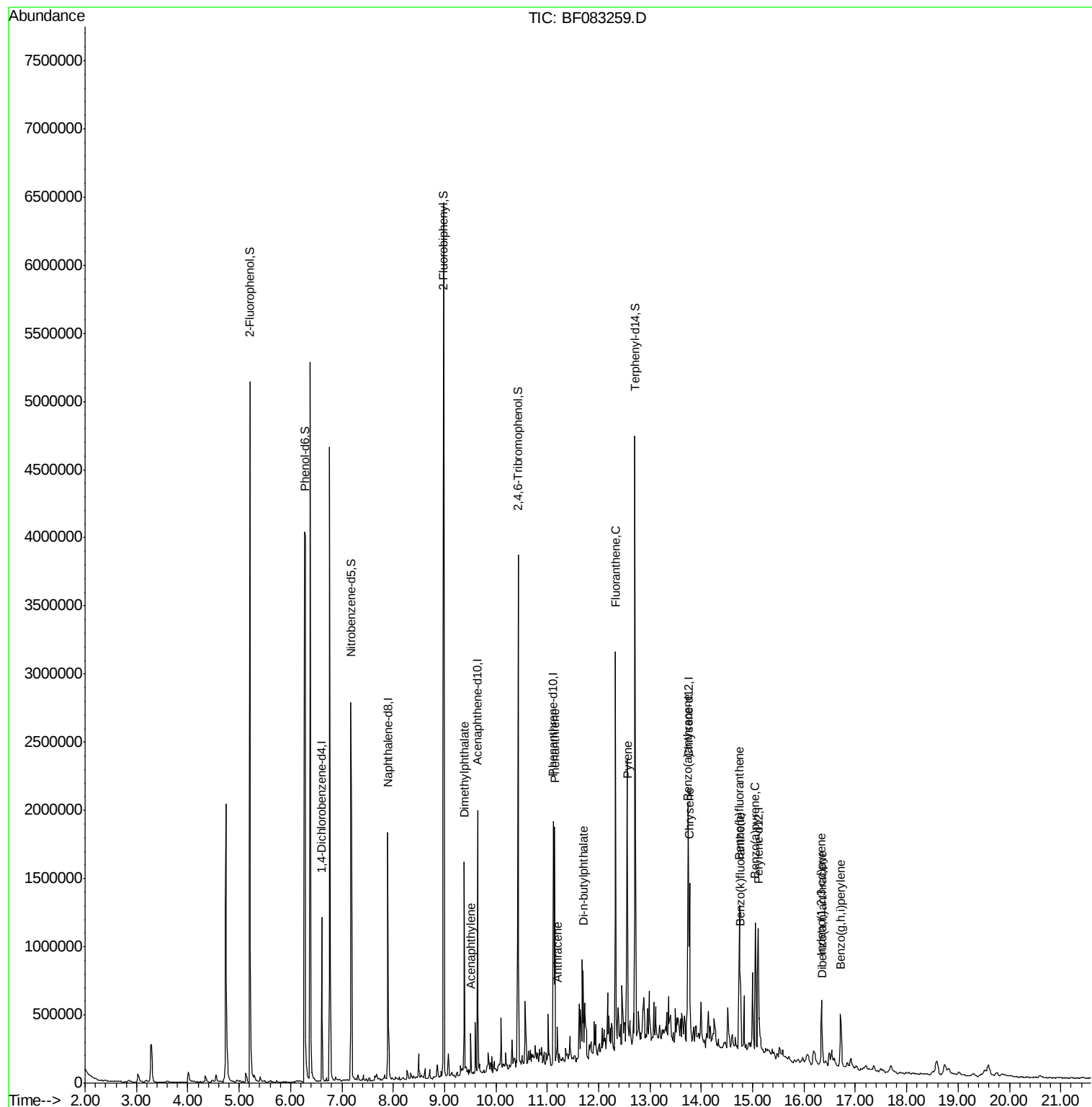
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF112415\
Data File : BF083259.D
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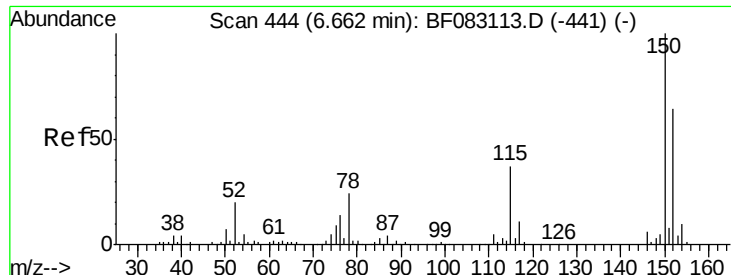
Instrument :
BNA_F
ClientSampleId :
TEC-C1

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11/25/2015 12:54:42 PM

Quant Time: Nov 25 11:18:53 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sun Nov 22 09:22:46 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.60 min Scan# 404

Delta R.T. -0.06 min

Lab File: BF083259.D

Acq: 25 Nov 2015 2:05

Instrument :

BNA_F

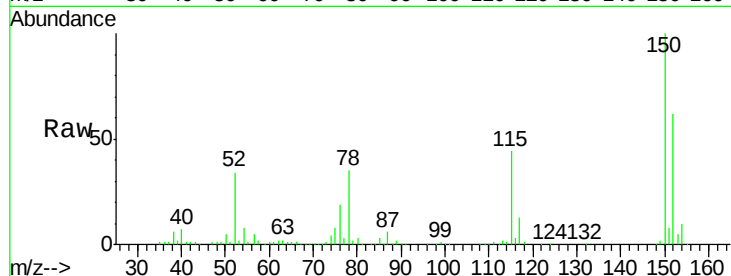
ClientSampleId :

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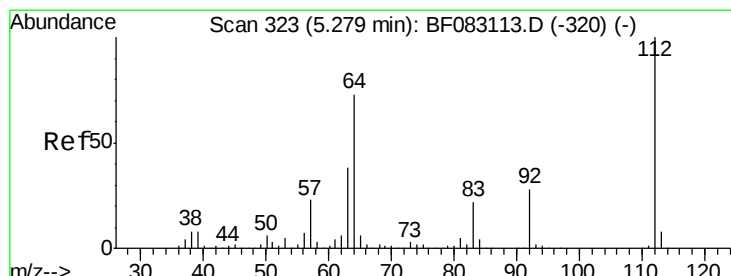
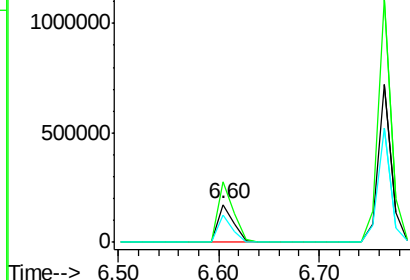
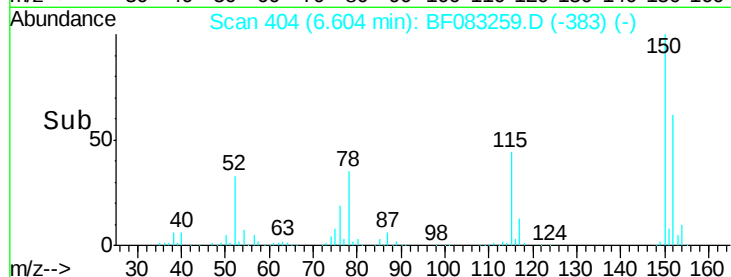
Tgt Ion	Ratio	Resp	Lower	Upper
152	100	187621		
150	160.2	125.8	188.8	
115	70.9	46.9	70.3#	



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 121.00 ng

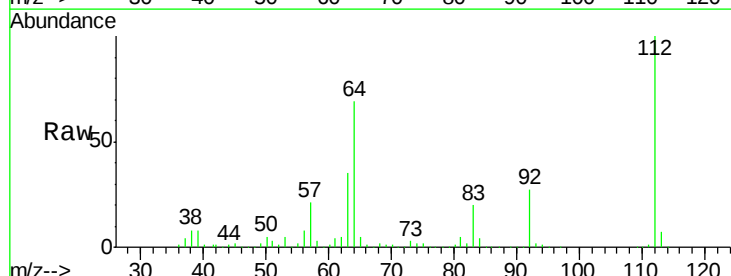
RT: 5.21 min Scan# 282

Delta R.T. -0.07 min

Lab File: BF083259.D

Acq: 25 Nov 2015 2:05

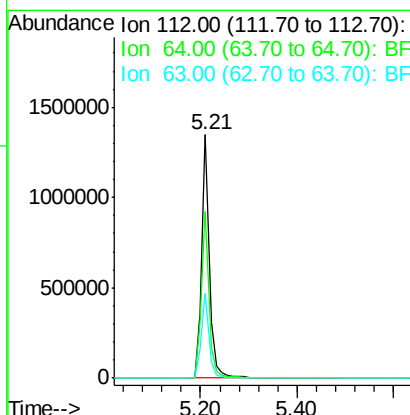
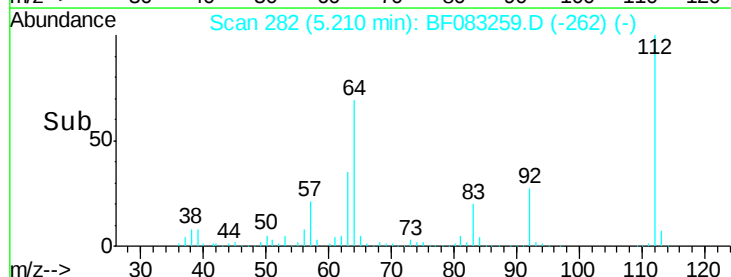
Tgt Ion	Ratio	Resp	Lower	Upper
112	100	1501605		
64	68.7	58.4	87.6	
63	34.9	30.0	45.0	

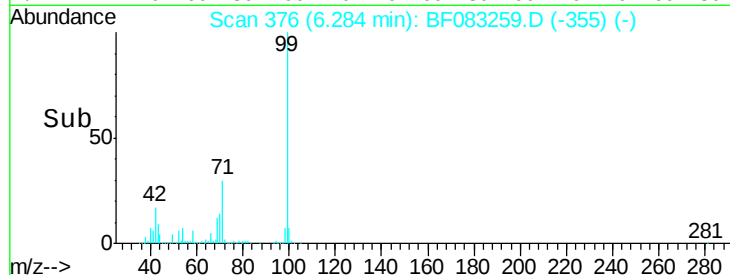
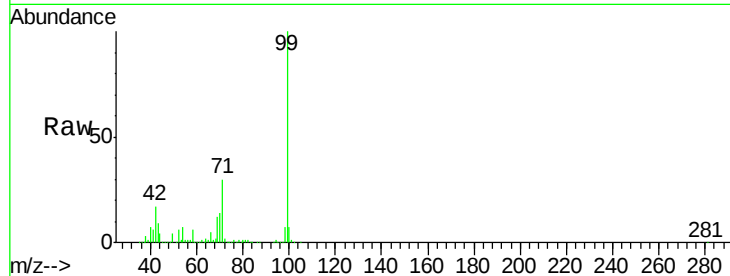
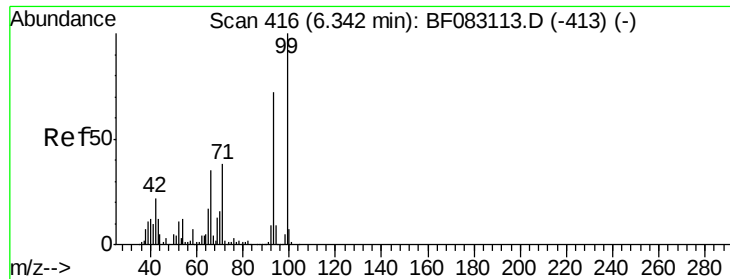


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 133.70 ng

RT: 6.28 min Scan# 376

Delta R.T. -0.06 min

Lab File: BF083259.D

Acq: 25 Nov 2015 2:05

Instrument :

BNA_F

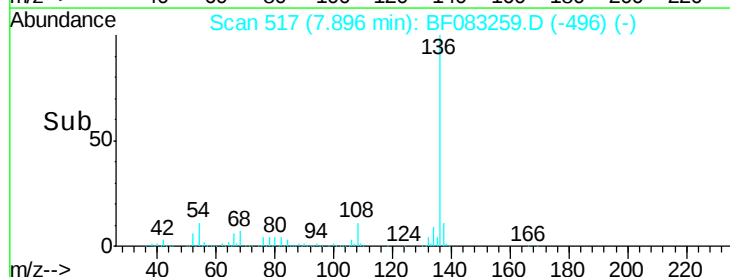
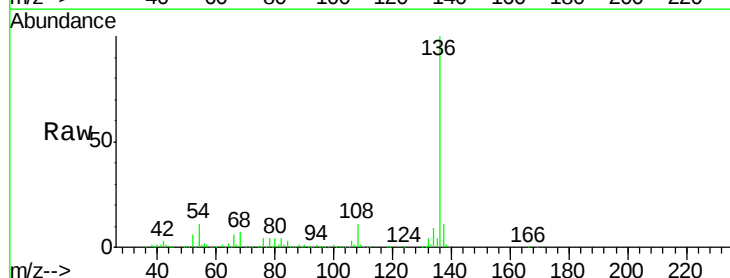
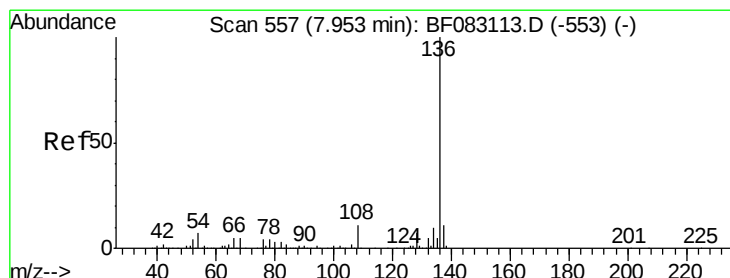
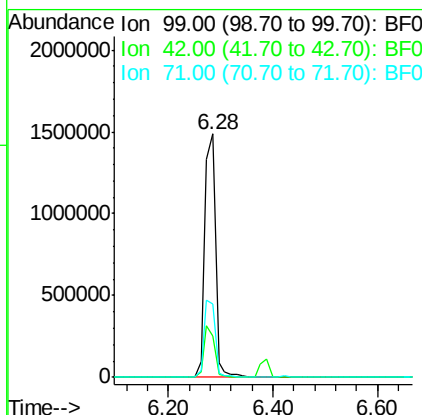
ClientSampleId :

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Tgt Ion:	99	Resp:	2146789
Ion	Ratio	Lower	Upper
99	100		
42	16.7	17.7	26.5#
71	30.1	30.2	45.4#



#21

Naphthalene-d8

Concen: 20.00 ng

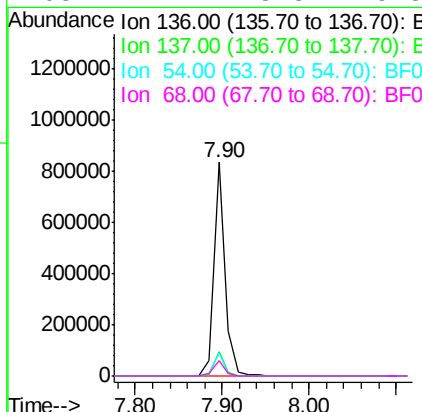
RT: 7.90 min Scan# 517

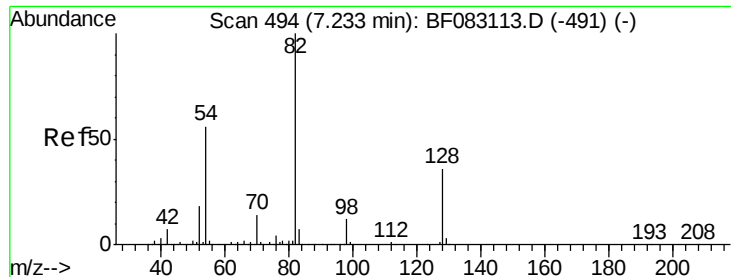
Delta R.T. -0.06 min

Lab File: BF083259.D

Acq: 25 Nov 2015 2:05

Tgt Ion:	136	Resp:	754534
Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.7	13.1
54	11.0	5.8	8.6#
68	7.4	3.8	5.8#





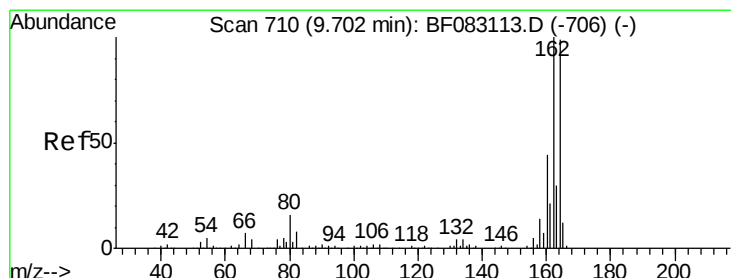
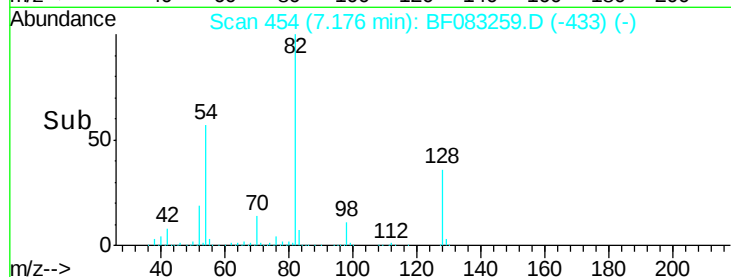
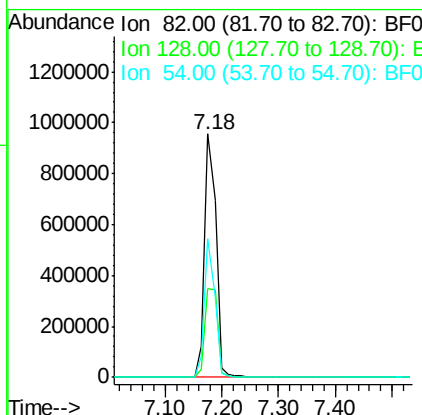
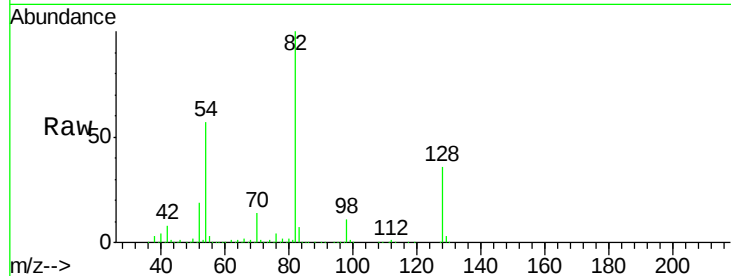
#23
Nitrobenzene-d5
Concen: 77.20 ng
RT: 7.18 min Scan# 454
Delta R.T. -0.06 min
Lab File: BF083259.D
Acq: 25 Nov 2015 2:05

Instrument :
BNA_F
ClientSampleId :
TEC-C1

Tgt Ion: 82 Resp: 1274800
Ion Ratio Lower Upper
82 100
128 36.3 28.5 42.7
54 57.2 44.6 67.0

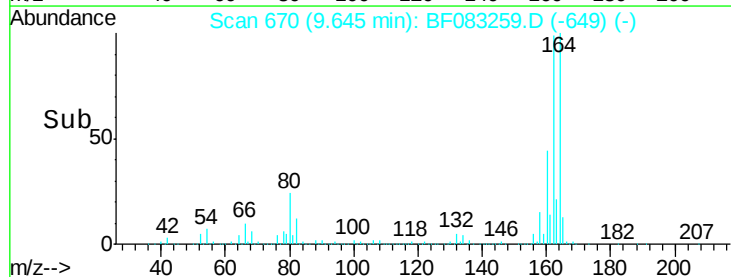
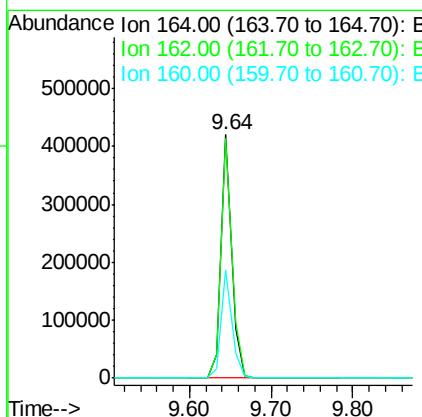
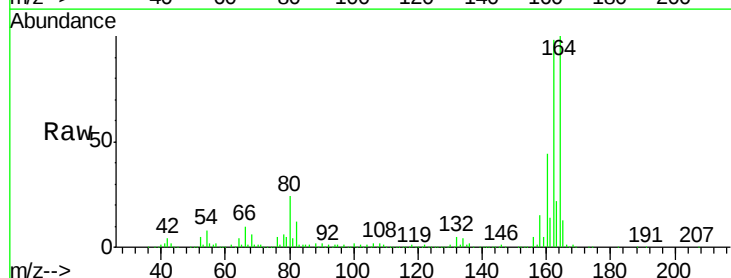
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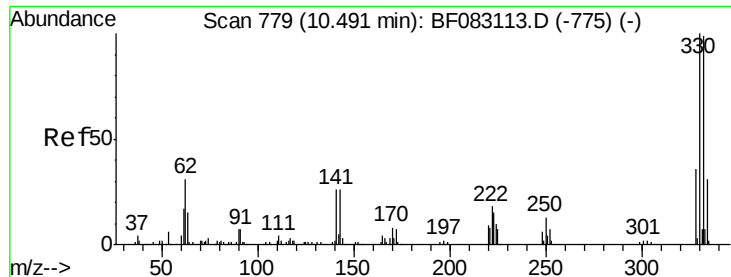
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.64 min Scan# 670
Delta R.T. -0.06 min
Lab File: BF083259.D
Acq: 25 Nov 2015 2:05

Tgt Ion: 164 Resp: 379418
Ion Ratio Lower Upper
164 100
162 98.4 81.2 121.8
160 44.4 35.6 53.4





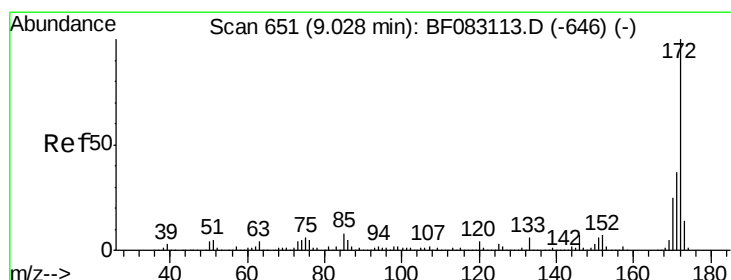
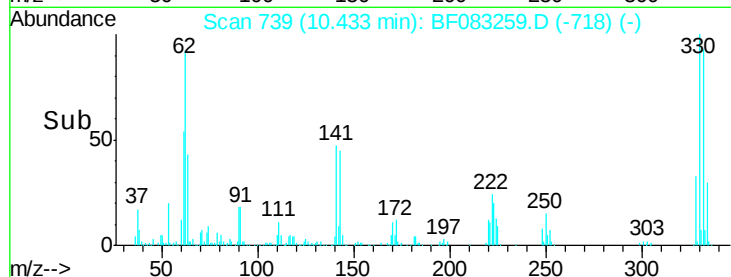
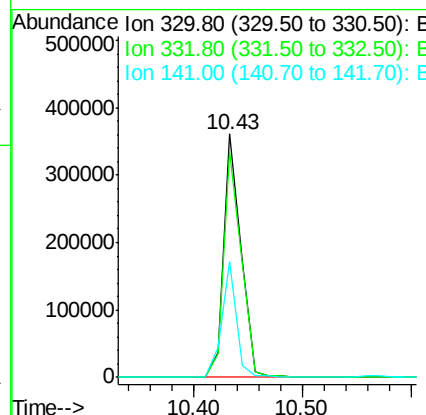
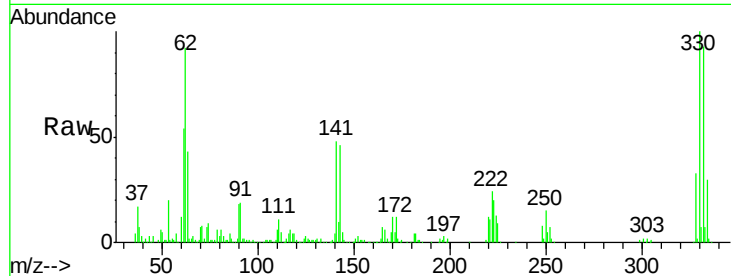
#41
 2,4,6-Tribromophenol
 Concen: 103.63 ng
 RT: 10.43 min Scan# 739
 Delta R.T. -0.06 min
 Lab File: BF083259.D
 Acq: 25 Nov 2015 2:05

Instrument :
 BNA_F
 ClientSampleId :
 TEC-C1

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	402258		
332	94.3	77.7	116.5	
141	40.5	29.7	44.5	

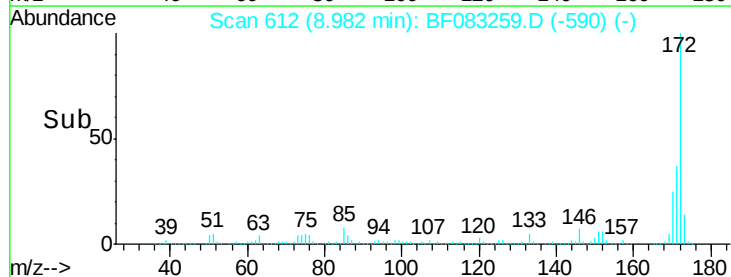
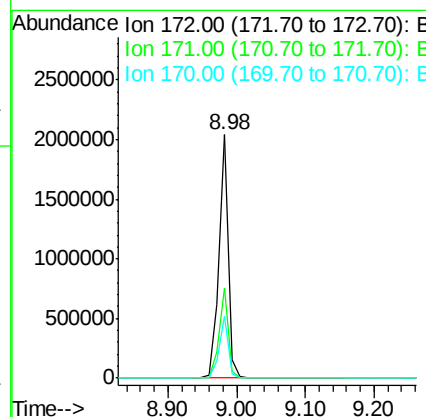
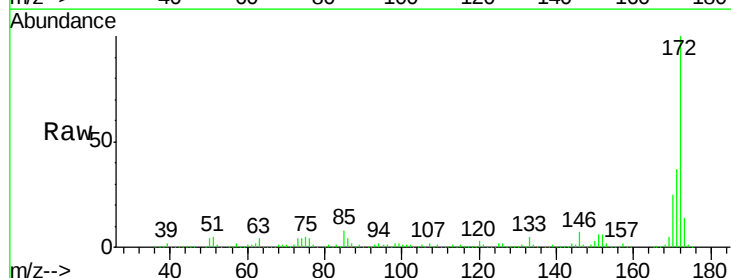
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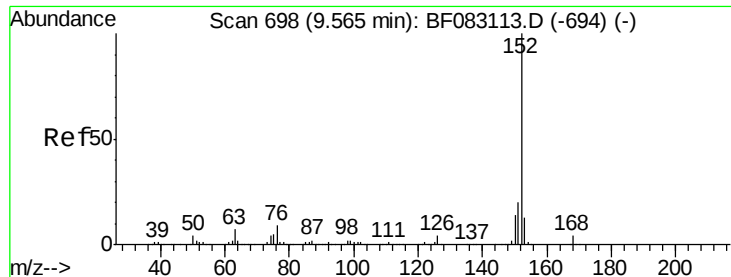
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#44
 2-Fluorobiphenyl
 Concen: 72.52 ng
 RT: 8.98 min Scan# 612
 Delta R.T. -0.05 min
 Lab File: BF083259.D
 Acq: 25 Nov 2015 2:05

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1973291		
171	37.1	29.5	44.3	
170	25.4	19.9	29.9	





#48

Acenaphthylene

Concen: 2.95 ng

RT: 9.51 min Scan# 658

Delta R.T. -0.06 min

Lab File: BF083259.D

Acq: 25 Nov 2015 2:05

Instrument :

BNA_F

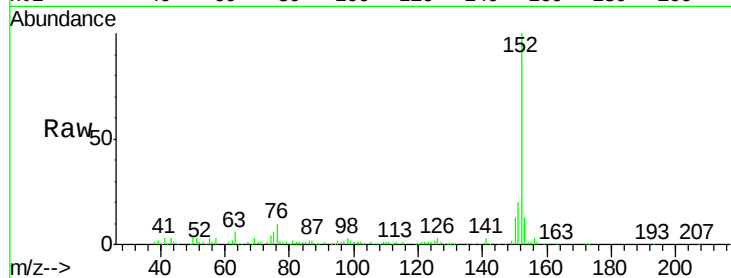
ClientSampleId :

TEC-C1

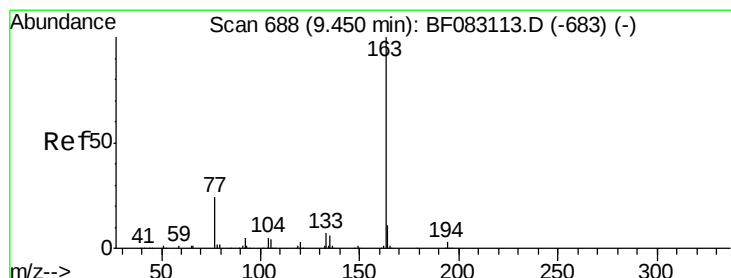
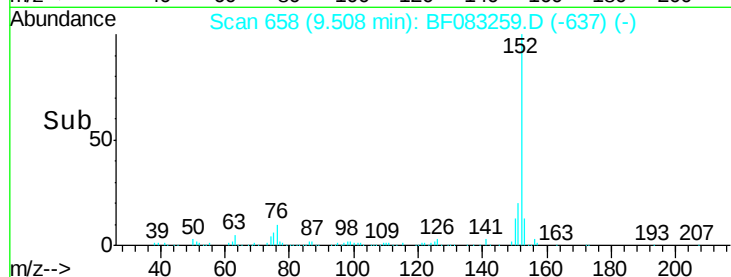
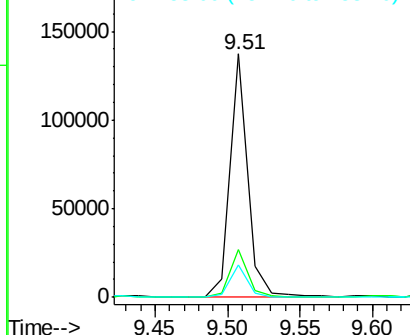
Tgt Ion:	152	Resp:	116027
Ion Ratio	Lower	Upper	
152	100		
151	19.8	16.3	24.5
153	13.5	10.8	16.2

Manual Integrations
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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 19.76 ng

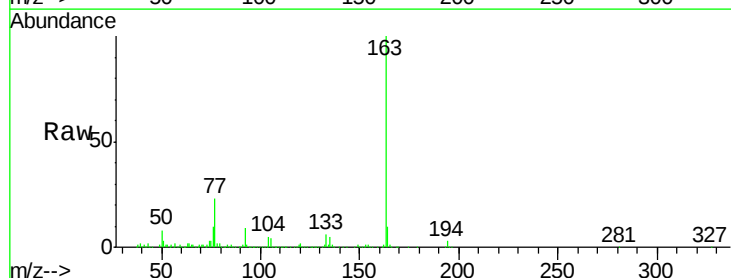
RT: 9.38 min Scan# 647

Delta R.T. -0.07 min

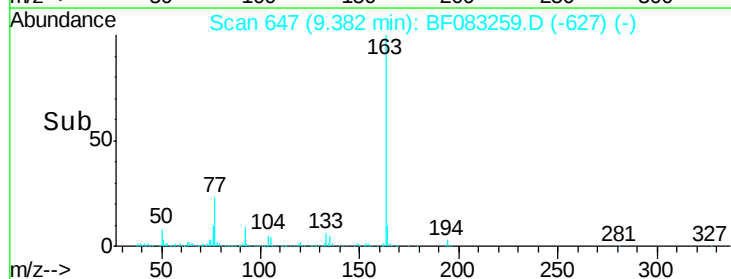
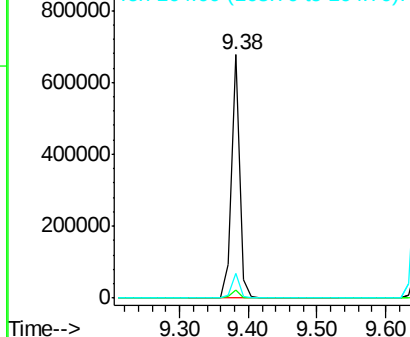
Lab File: BF083259.D

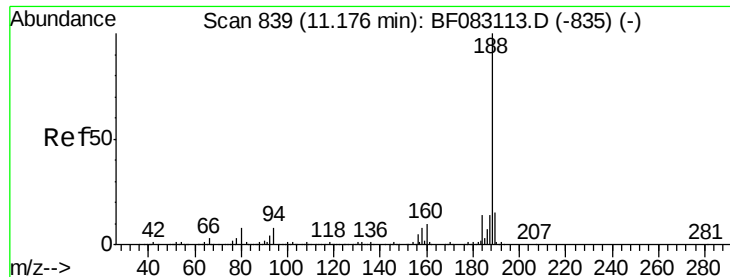
Acq: 25 Nov 2015 2:05

Tgt Ion:	163	Resp:	577206
Ion Ratio	Lower	Upper	
163	100		
194	3.5	2.6	4.0
164	10.0	8.6	12.8



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





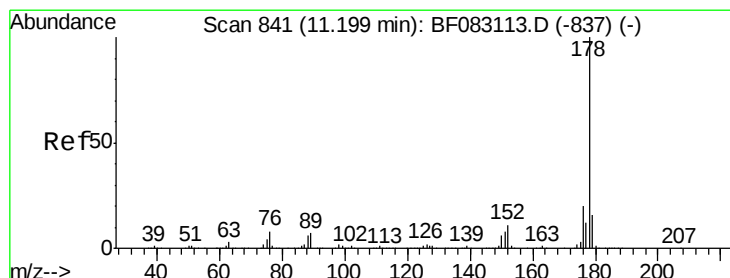
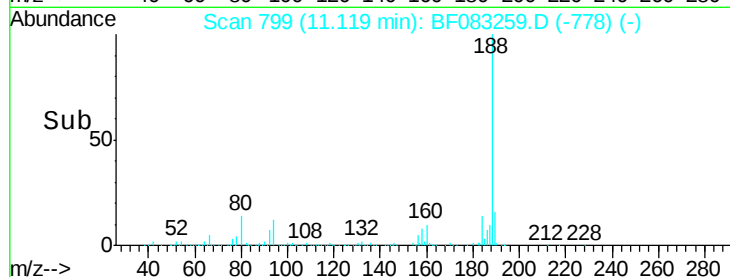
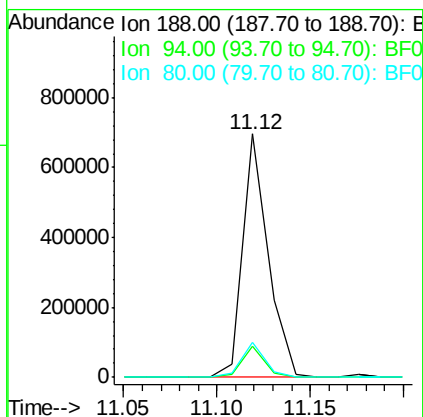
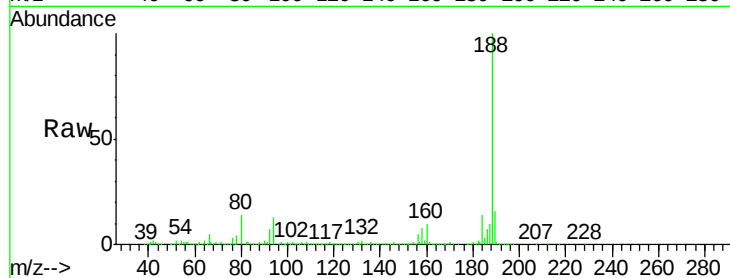
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.12 min Scan# 799
Delta R.T. -0.06 min
Lab File: BF083259.D
Acq: 25 Nov 2015 2:05

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ClientSampleId :
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Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	12.5	6.0	9.0#
80	14.2	6.7	10.1#

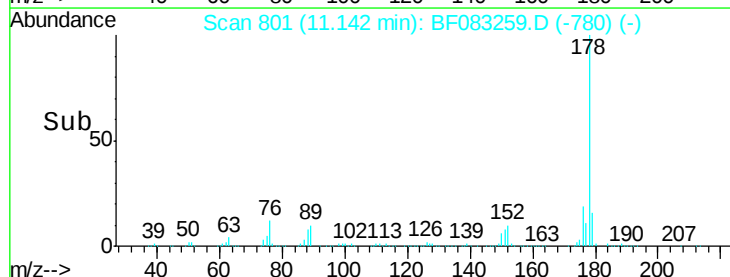
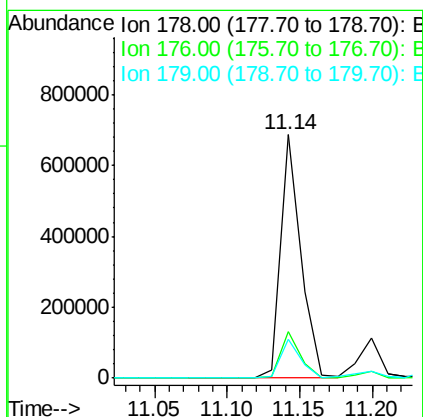
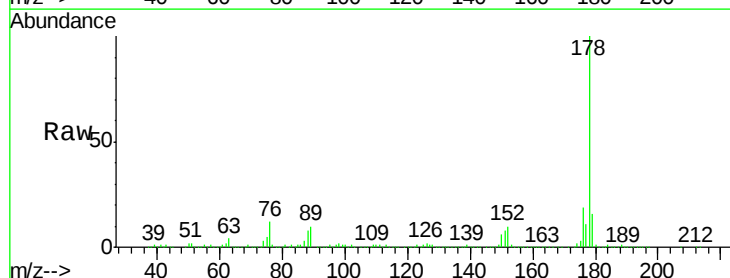
Manual Integrations
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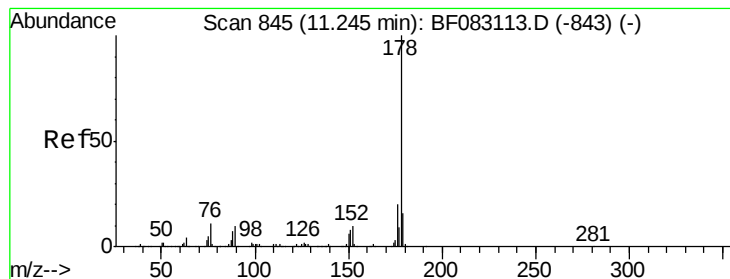
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#70
Phenanthrene
Concen: 17.35 ng
RT: 11.14 min Scan# 801
Delta R.T. -0.06 min
Lab File: BF083259.D
Acq: 25 Nov 2015 2:05

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	19.3	16.2	24.2
179	16.1	12.8	19.2





#71

Anthracene

Concen: 2.96 ng

RT: 11.20 min Scan# 806

Delta R.T. -0.05 min

Lab File: BF083259.D

Acq: 25 Nov 2015 2:05

Instrument :

BNA_F

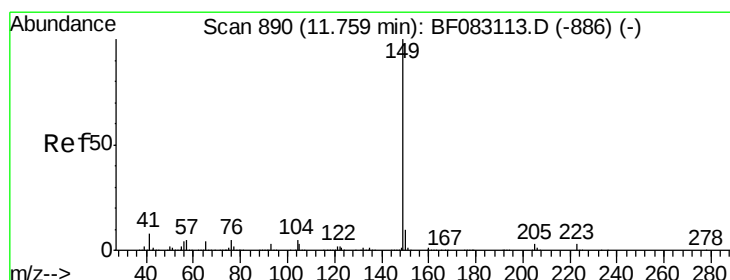
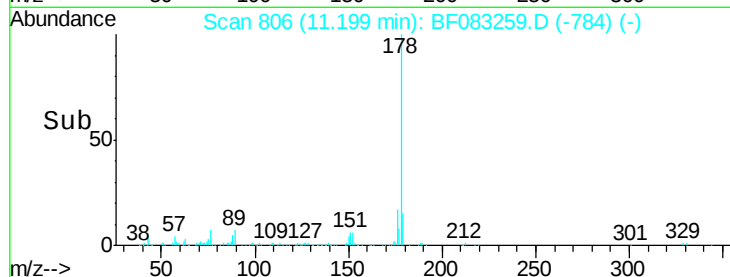
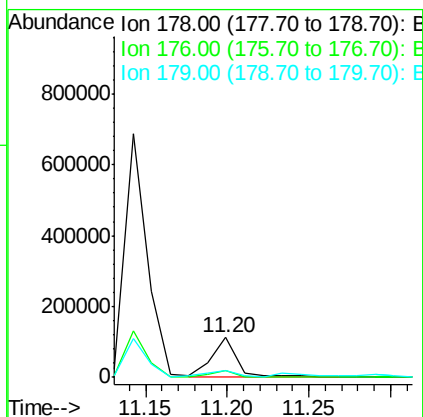
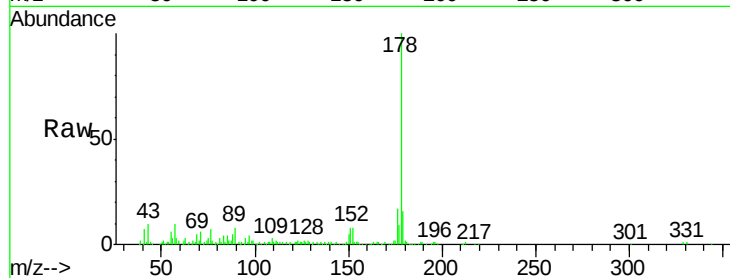
ClientSampleId :

TEC-C1

Manual Integrations
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Tgt	Ion:178	Resp:	115340
Ion	Ratio	Lower	Upper
178	100		
176	17.4	15.6	23.4
179	15.9	13.2	19.8



#73

Di-n-butylphthalate

Concen: 5.81 ng

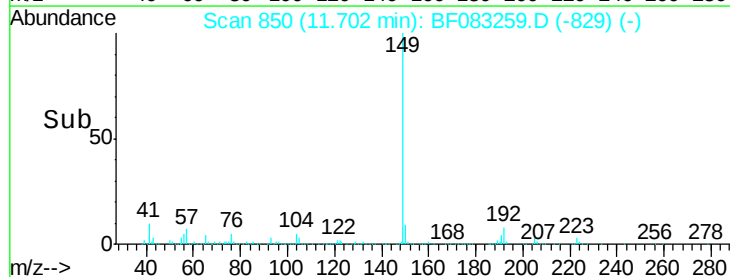
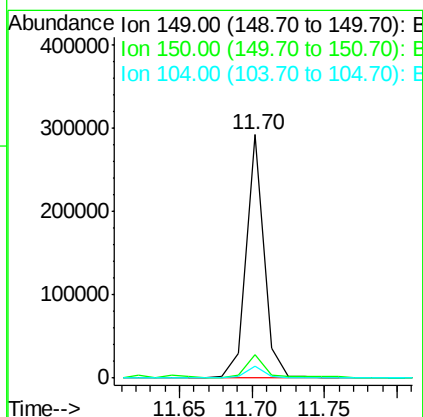
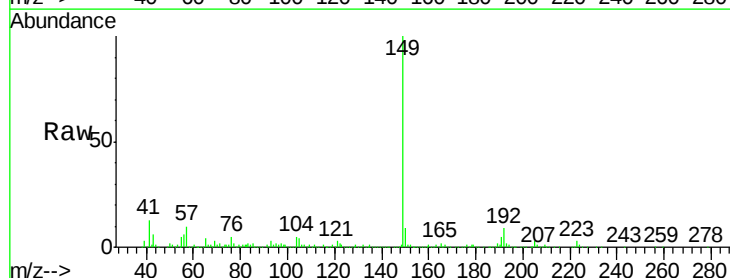
RT: 11.70 min Scan# 850

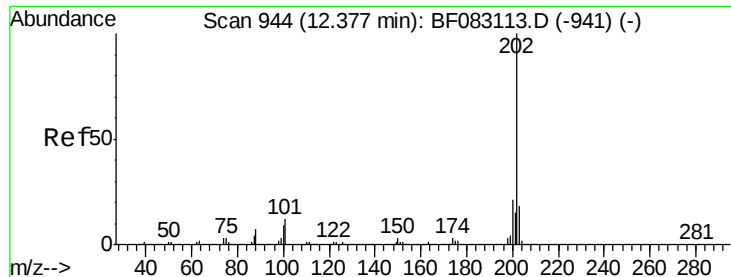
Delta R.T. -0.06 min

Lab File: BF083259.D

Acq: 25 Nov 2015 2:05

Tgt	Ion:149	Resp:	245642
Ion	Ratio	Lower	Upper
149	100		
150	9.4	8.0	12.0
104	5.0	4.4	6.6





#74

Fluoranthene

Concen: 31.03 ng

RT: 12.33 min Scan# 905

Delta R.T. -0.05 min

Lab File: BF083259.D

Acq: 25 Nov 2015 2:05

Instrument :

BNA_F

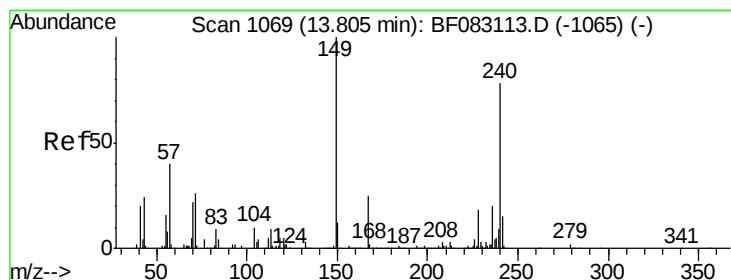
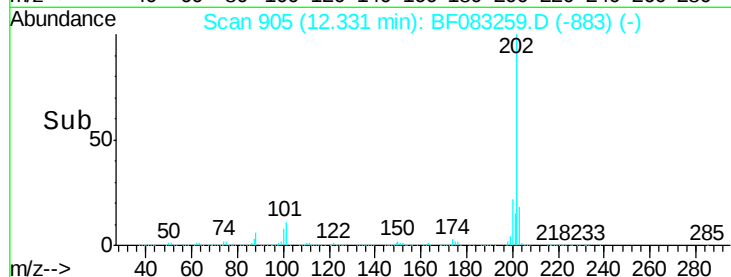
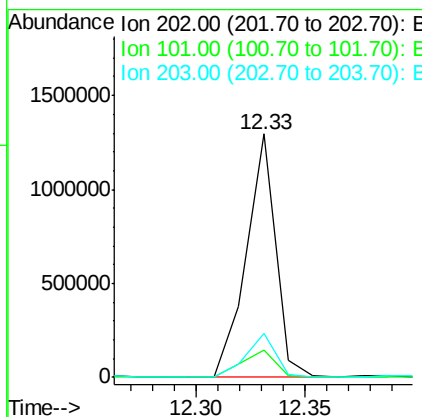
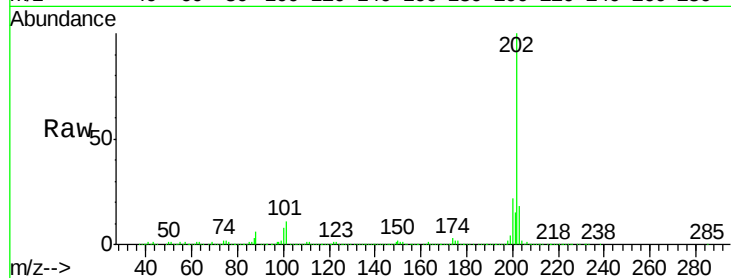
ClientSampleId :

TEC-C1

Tgt Ion:	202	Resp:	1212670
Ion Ratio	Lower	Upper	
202	100		
101	11.4	0.0	32.3
203	18.2	0.0	38.4

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#75

Chrysene-d12

Concen: 20.00 ng

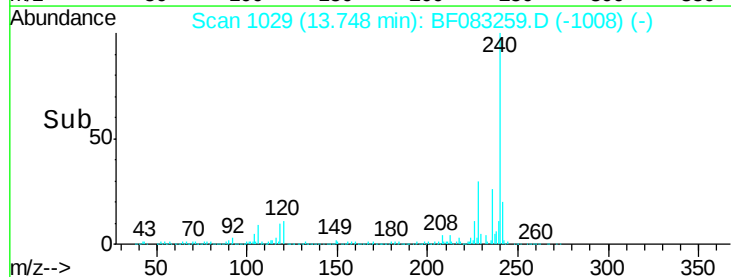
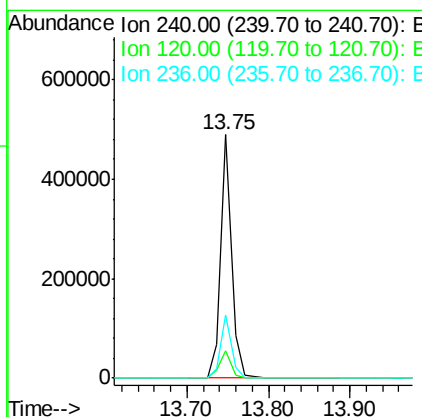
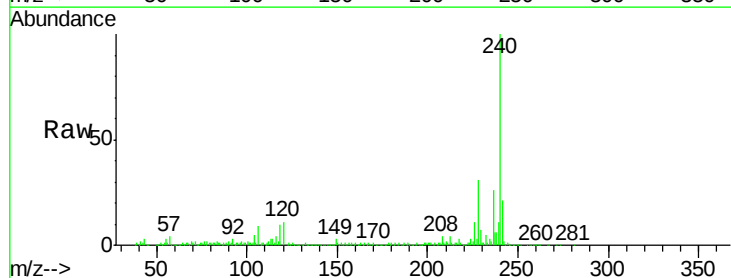
RT: 13.75 min Scan# 1029

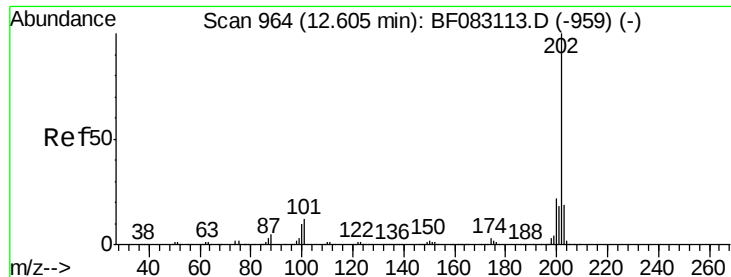
Delta R.T. -0.06 min

Lab File: BF083259.D

Acq: 25 Nov 2015 2:05

Tgt Ion:	240	Resp:	449335
Ion Ratio	Lower	Upper	
240	100		
120	11.5	5.4	8.2#
236	25.9	20.6	31.0





#77

Pyrene

Concen: 35.64 ng

RT: 12.56 min Scan# 925

Delta R.T. -0.05 min

Lab File: BF083259.D

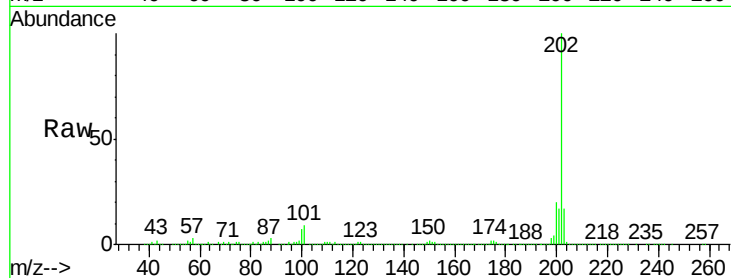
Acq: 25 Nov 2015 2:05

Instrument :

BNA_F

ClientSampleId :

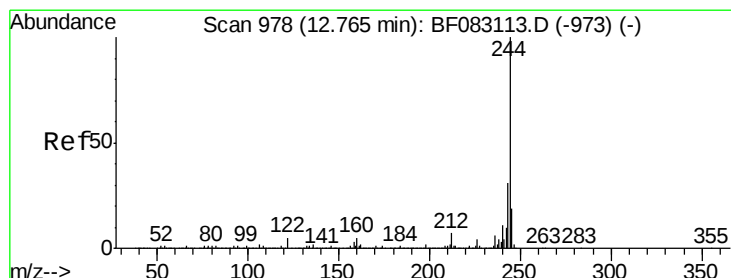
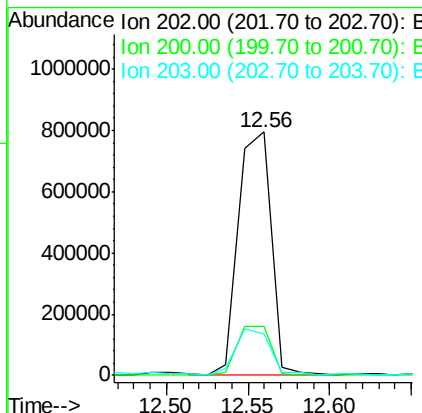
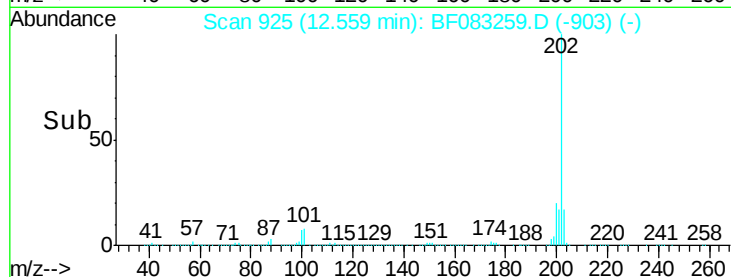
TEC-C1



Tgt Ion:	202	Resp:	1094087
Ion	Ratio	Lower	Upper
202	100		
200	20.4	17.8	26.6
203	17.0	15.0	22.4

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#78

Terphenyl-d14

Concen: 78.60 ng

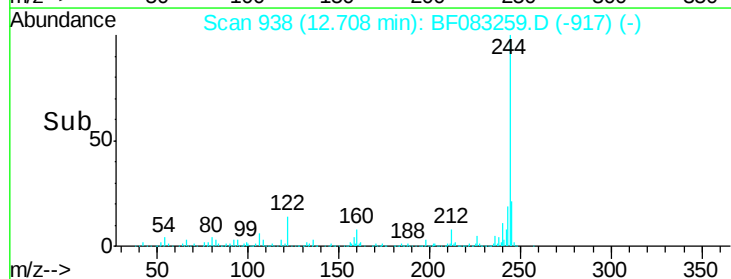
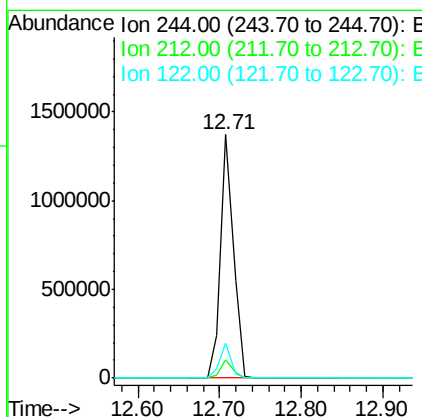
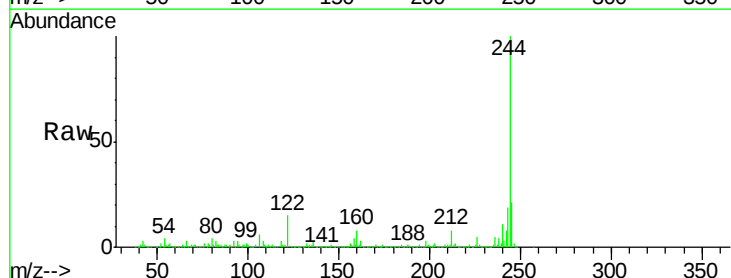
RT: 12.71 min Scan# 938

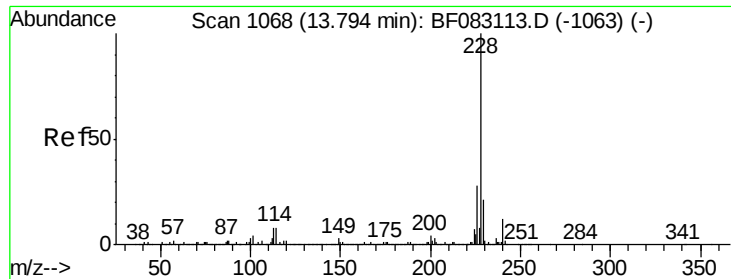
Delta R.T. -0.06 min

Lab File: BF083259.D

Acq: 25 Nov 2015 2:05

Tgt Ion:	244	Resp:	1499770
Ion	Ratio	Lower	Upper
244	100		
212	7.7	5.4	8.2
122	14.5	4.3	6.5#





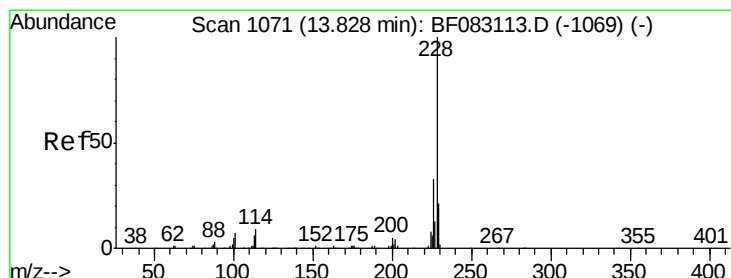
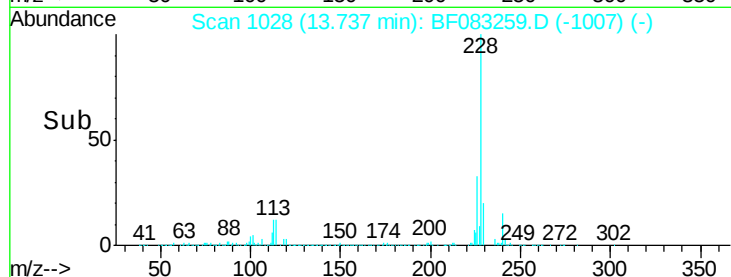
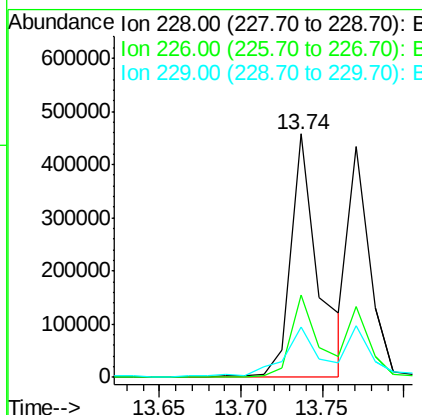
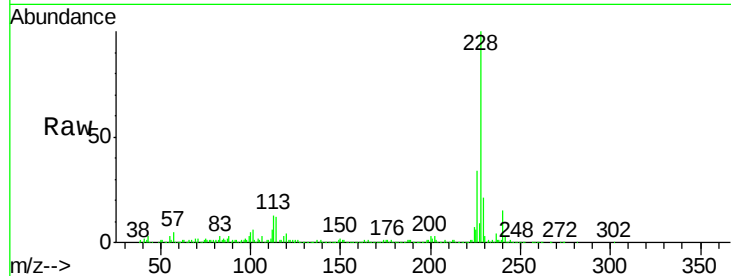
#80
Benzo(a)anthracene
Concen: 19.36 ng
RT: 13.74 min Scan# 1028
Delta R.T. -0.06 min
Lab File: BF083259.D
Acq: 25 Nov 2015 2:05

Instrument :
BNA_F
ClientSampleId :
TEC-C1

Tgt Ion	Ratio	Lower	Upper
228	100		
226	33.7	22.6	33.8
229	20.6	16.6	24.8

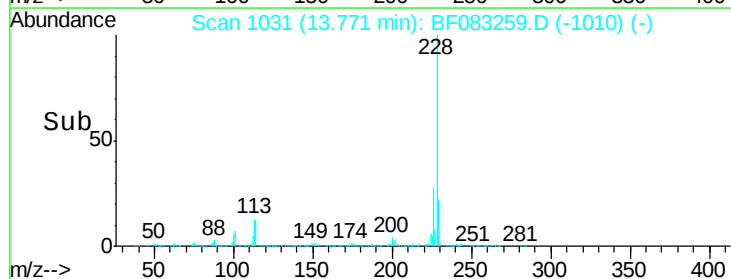
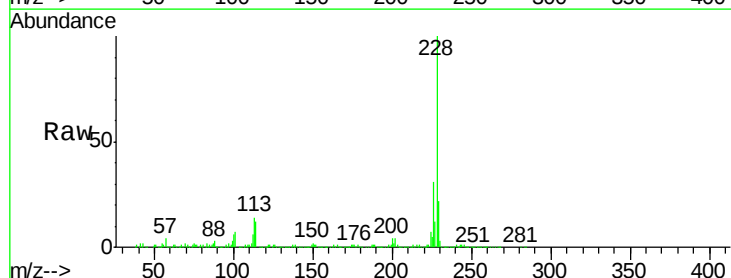
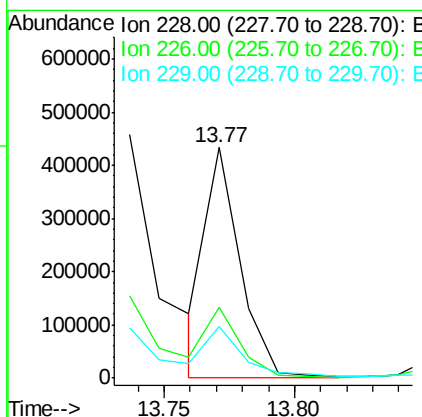
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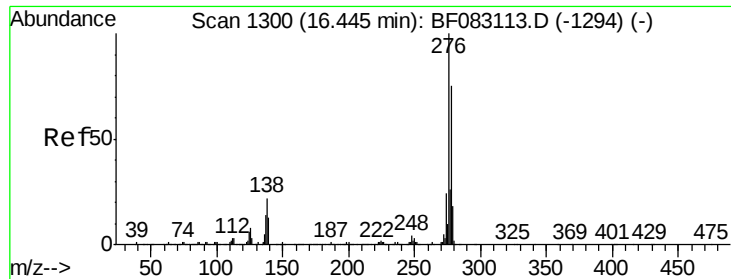
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#82
Chrysene
Concen: 15.39 ng
RT: 13.77 min Scan# 1031
Delta R.T. -0.06 min
Lab File: BF083259.D
Acq: 25 Nov 2015 2:05

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.5	38.3
229	22.1	16.6	25.0





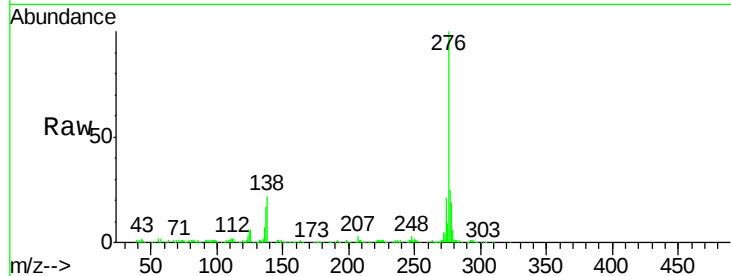
#85
Indeno(1,2,3-cd)pyrene
Concen: 13.17 ng
RT: 16.34 min Scan# 1256
Delta R.T. -0.10 min
Lab File: BF083259.D
Acq: 25 Nov 2015 2:05

Instrument :
BNA_F
ClientSampleId :
TEC-C1

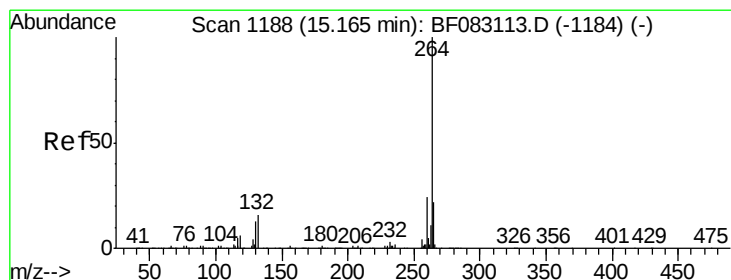
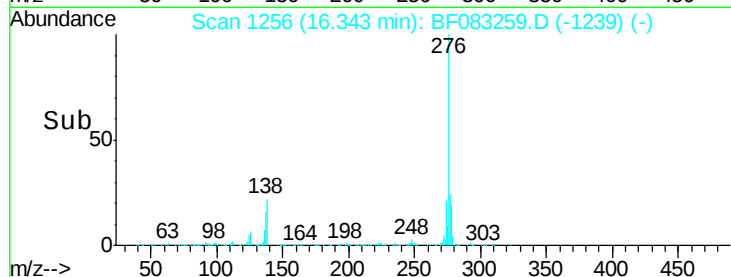
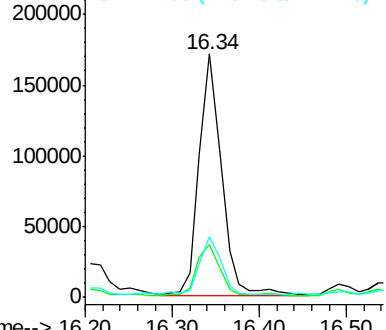
Tgt Ion	Ratio	Lower	Upper
276	100		
138	21.0	18.0	27.0
277	26.0	20.2	30.4

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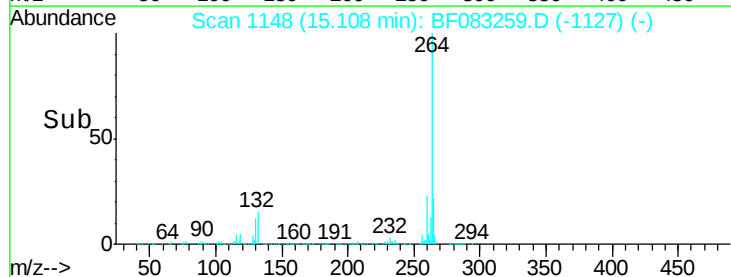
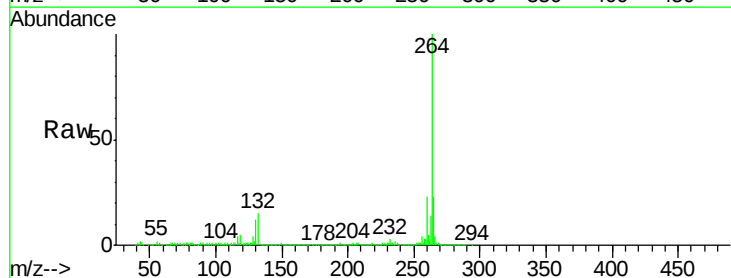
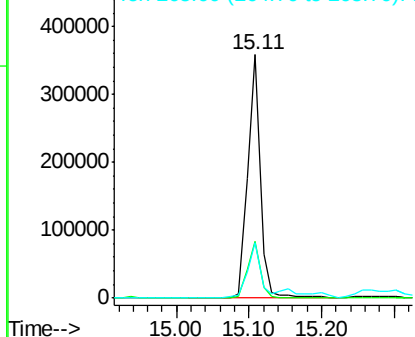
Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

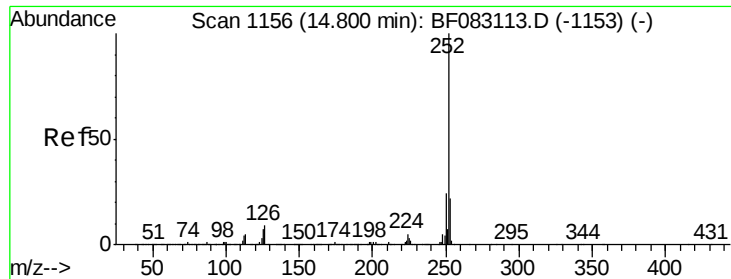


#86
Perylene-d12
Concen: 20.00 ng
RT: 15.11 min Scan# 1148
Delta R.T. -0.06 min
Lab File: BF083259.D
Acq: 25 Nov 2015 2:05

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.1	19.1	28.7
265	22.5	18.2	27.4

Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 18.15 ng m

RT: 14.74 min Scan# 1116

Delta R.T. -0.06 min

Lab File: BF083259.D

Acq: 25 Nov 2015 2:05

Instrument :

BNA_F

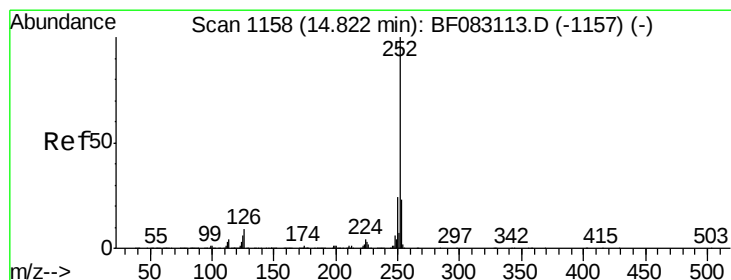
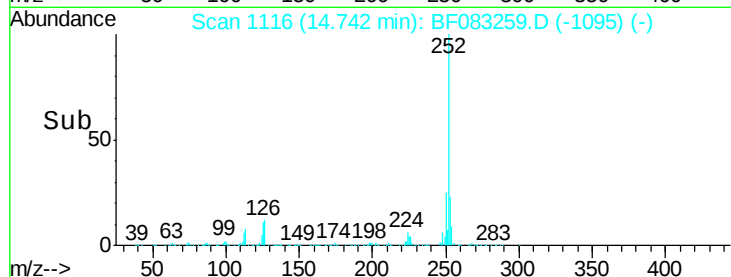
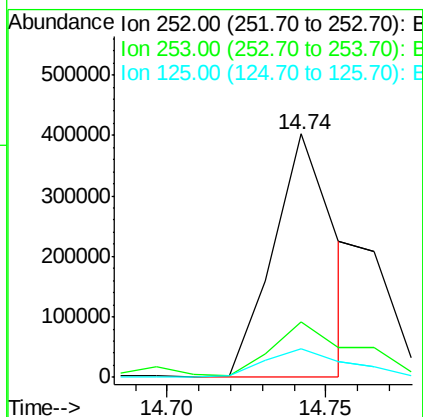
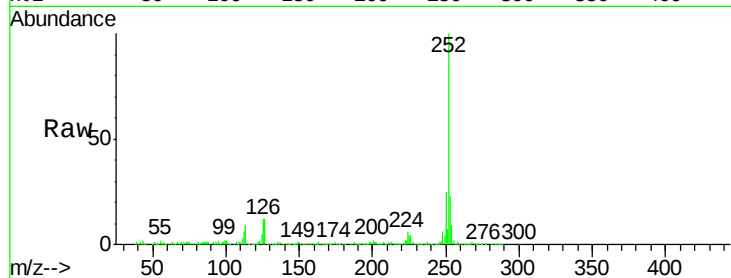
ClientSampleId :

TEC-C1

Tgt Ion:	252	Resp:	540848
Ion Ratio	Lower	Upper	
252	100		
253	22.7	17.7	26.5
125	11.6	5.6	8.4#

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#88

Benzo(k)fluoranthene

Concen: 7.80 ng m

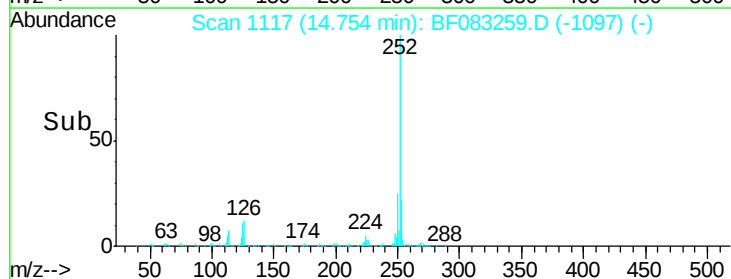
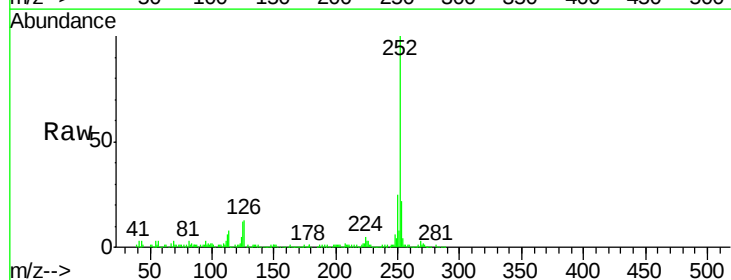
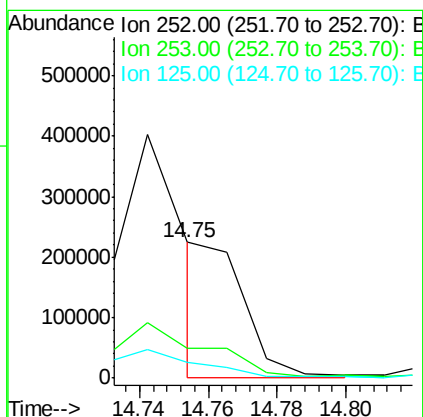
RT: 14.75 min Scan# 1117

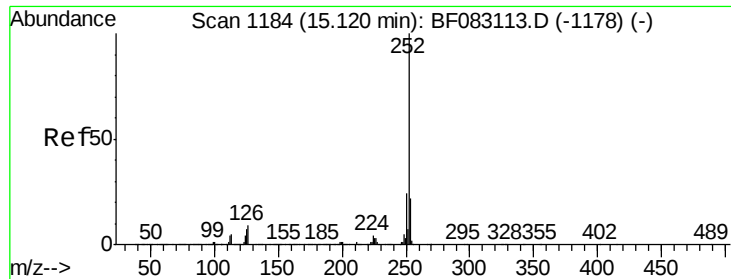
Delta R.T. -0.07 min

Lab File: BF083259.D

Acq: 25 Nov 2015 2:05

Tgt Ion:	252	Resp:	173087
Ion Ratio	Lower	Upper	
252	100		
253	22.5	18.2	27.2
125	11.7	6.8	10.2#





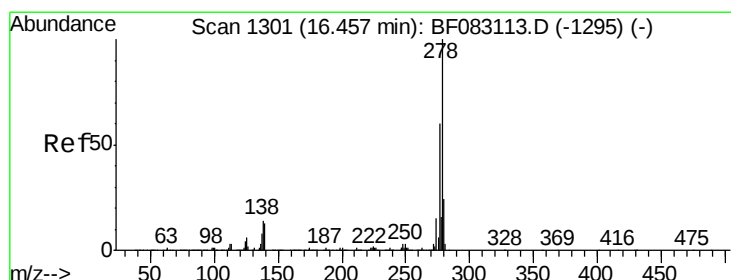
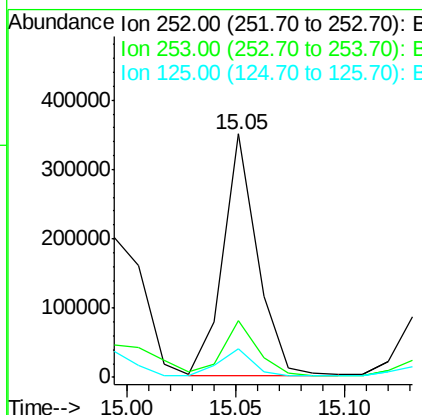
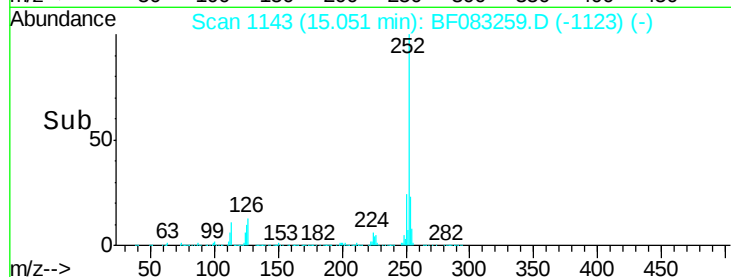
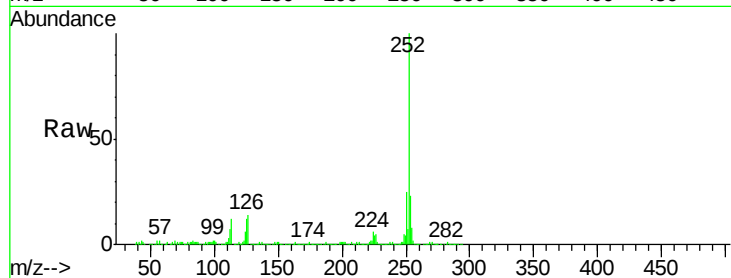
#89
Benzo(a)pyrene
Concen: 15.65 ng
RT: 15.05 min Scan# 1143
Delta R.T. -0.07 min
Lab File: BF083259.D
Acq: 25 Nov 2015 2:05

Instrument :
BNA_F
ClientSampleId :
TEC-C1

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	23.4	17.5	26.3
125	11.7	5.4	8.0

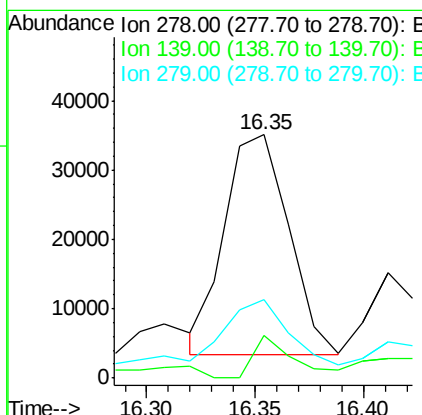
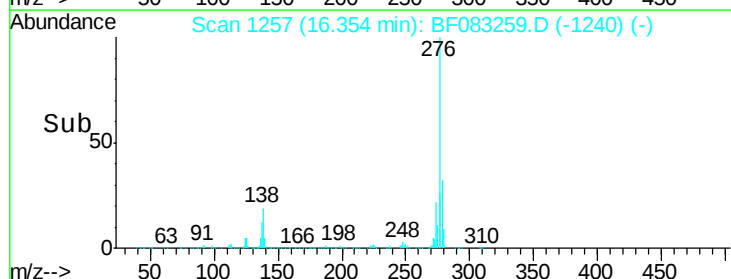
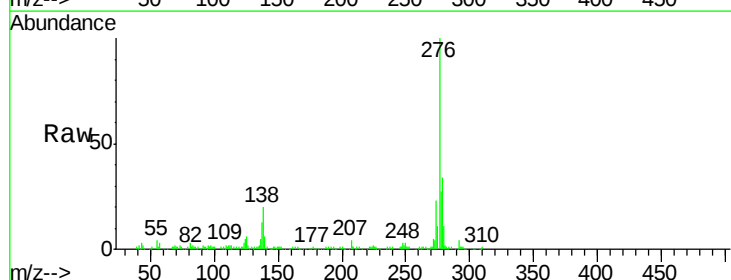
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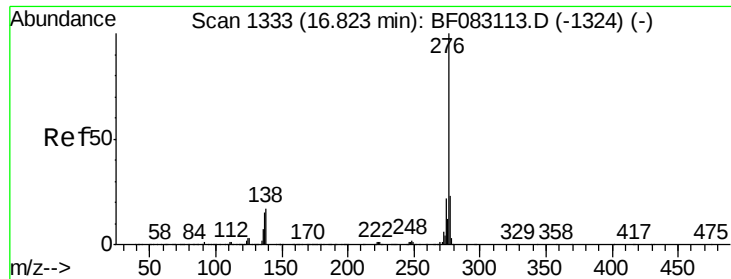
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#90
Dibenzo(a,h)anthracene
Concen: 2.92 ng m
RT: 16.35 min Scan# 1257
Delta R.T. -0.10 min
Lab File: BF083259.D
Acq: 25 Nov 2015 2:05

Tgt Ion	Ratio	Resp Lower	Upper
278	100		
139	17.6	10.7	16.1
279	32.4	19.3	28.9





#91

Benzo(g,h,i)perylene

Concen: 13.92 ng

RT: 16.71 min Scan# 1288

Delta R.T. -0.11 min

Lab File: BF083259.D

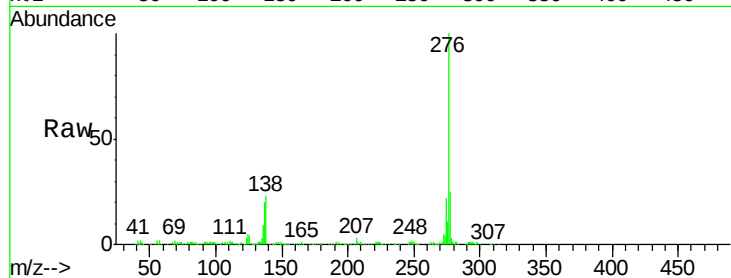
Acq: 25 Nov 2015 2:05

Instrument :

BNA_F

ClientSampleId :

TEC-C1



Tgt Ion	Ratio	Resp	Lower	Upper
276	100	303618		
277	25.4	18.7	28.1	
138	23.3	13.9	20.9	

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